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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,970	03/02/2004	Jathan D. Edwards	53868US06	2126

7590 07/06/2007
Attention: Eric D. Levinson
Imation Corp.
Legal Affairs
P.O. Box 64898
St. Paul, MN 55164-0898

EXAMINER

HUBER, PAUL W

ART UNIT	PAPER NUMBER
2627	

MAIL DATE	DELIVERY MODE
07/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/790,970	EDWARDS ET AL.
	Examiner	Art Unit
	Paul Huber	2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 February 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 30-64 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 30-35 is/are allowed.
- 6) Claim(s) 36-64 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

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The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claims 42, 46 and 47 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 42 and 46, respectively, of copending Application No. 10/790,965. Although the conflicting claims are not identical, they are not patentably distinct from each other because: as noted by the Federal Circuit in *Eli Lilly v. Barr*, "[a] patentable distinction does not lie where a later claim is anticipated by an earlier one" (see also *In re Berg* and *In re Goodman* which established that a later genus claim limitation is anticipated by, and therefore not patentably distinct from, an earlier species claim).

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 42 and 46 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 44 and 48, respectively, of copending Application No. 10/791,064. Although the conflicting claims are not identical, they are not patentably distinct from each other because: as noted by the Federal Circuit in *Eli Lilly v. Barr*, "[a] patentable distinction does not lie where a later claim is anticipated by an earlier one" (see also *In re Berg* and *In re Goodman* which established that a later genus claim limitation is anticipated by, and therefore not patentably distinct from, an earlier species claim).

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 36-64 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of U.S. Patent No. 6,890,704. Although the conflicting claims are not identical, they are not patentably distinct from each other because: as noted by the Federal Circuit in *Eli Lilly v. Barr*, "[a] patentable distinction does not lie where a later claim is anticipated by an earlier one" (see also *In re Berg* and *In re Goodman* which established that a later genus claim limitation is anticipated by, and therefore not patentably distinct from, an earlier species claim).

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to

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exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Omum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 36-39 and 41-64 are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki et al. (USP-4,947,384).

Suzuki et al. discloses a replica disk made from a replication process that includes creation of a master disk, the replica disk (see col. 4, line 41 and figure 4), comprising : a replica substrate 1; and a first major surface and a second major surface, the first major surface including a surface relief pattern defined by adjacent lands 3 and grooves 2. Figure 2 discloses that the grooves extend down to the substrate, wherein the grooves define groove bottoms and the lands define land tops. Suzuki et al. further teaches that the track pitch is less than 425 nanometers and 700 nanometers by providing 1.6 micro inches, which converts to 40.64 nanometers (see col. 1, lines 49-67). Suzuki et al. further teaches that the width of the groove bottom and the width of the land top is 0.8 micro inches, which converts to 20.32 nanometers, which value is greater than 35 percent of the track pitch (see col. 1, lines 49-67). Figure 2 teaches that the groove bottoms and land tops are flat and coplanar, while figure 3 teaches that the groove bottoms include sharp corners and figure 2 teaches that the land tops include sharp corners. Suzuki et al. further teaches that the depth of the groove is one eighth of the reading laser beam wavelength, thus inherently disclosing a groove depth within the claimed range based on the desired depth related to the laser beam wavelength (see col. 1, lines 49-67).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

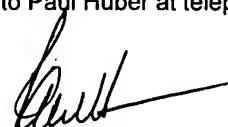
Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al., as applied to claim 39 above.

Suzuki et al. discloses the invention as claimed, but fails to specifically teach that the width of the groove bottoms are greater than 50 percent of the track pitch. Suzuki et al. rather teaches that the widths of the groove bottom is about 50 percent of the track pitch.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Suzuki et al. by providing the width of the groove greater than 50 percent of the track pitch as claimed. A practitioner in the art would have been motivated to do this for the purpose of providing an alignment which supports the preformat portion and the recording portion to decrease the read out error of the address signal and obtain a track crossing signal enlarged about a threshold value (see col. 4, lines 50-55).

Claims 30-35 are allowed.

Any inquiry concerning this communication should be directed to Paul Huber at telephone number 571-272-7588.


Paul Huber
Primary Examiner
Art Unit 2627

pwh
June 25, 2007